

Amendments To The Claims:

1 – 8 (canceled)

9. (currently amended) A steam generator, comprising:

a combustion chamber having funnel shaped side walls, a bottom area, and a top area;

a plurality of steam generator pipes, connected together by fins, at least one of the pipes having a diameter at the bottom area that is different than a diameter at the top area;

an encircling wall arranged between the bottom and top areas and above the funnel shaped side walls formed from the plurality of steam generator pipes;

a flow medium that flows through the steam generator pipes;

a center axis A, positioned at the center of the encircling wall and extending parallel to the direction of flow of the flow medium,

wherein the outermost steam generator pipes which are the greatest distance from the center axis A are arranged over the entire height of the funnel shaped side walls both with non-reduced pipe diameter and a non-reduced fin width,

wherein inner most steam generator pipes with the smallest distance from the center axis A have a reduced pipe diameter and reduced fin width, and

steam generator pipes arranged between the outermost and the innermost steam generator pipes form a transition having a first section with reduced pipe diameter and reduced fin width and a second section with non-reduced pipe diameter and non-reduced fin width.

~~diameter and width of the steam generator pipes is determined with respect to the steam generator pipe distance from the center axis A and with respect to the height of the funnel shaped side walls.~~

10. (previously presented) The steam generator as claimed in claim 9, wherein a majority of steam generator pipes have a diameter at the bottom area that is different than a diameter at the top area.

11. (previously presented) The steam generator as claimed in claim 10, wherein all of the steam generator pipes have a diameter at the bottom area that is different than a diameter at the top area

12. (previously presented) The steam generator as claimed in claim 11, wherein a plurality of steam generator pipes have a smaller pipe diameter in the bottom area than in the top area.

13. (previously presented) The steam generator as claimed in claim 12, wherein adjacent steam generator pipes are connected via fins, and a plurality of the fins in the top area have a different width than in the bottom area.

14. (previously presented) The steam generator as claimed in claim 13, wherein a plurality of fins in the bottom area have a narrower width than in the top area.

15. (previously presented) The steam generator as claimed in claim 14, wherein the diameter of the plurality of steam generator pipes in the bottom area is reduced by 5 to 15 percent relative to the pipe diameter in the top area.

16. (previously presented) The steam generator as claimed in claim 15, wherein the width of a plurality of fins in the bottom area is reduced by 30 to 70 percent relative to the fin width in the top area.

17. (previously presented) The steam generator as claimed in claim 16, wherein the plurality of steam generator pipes in the bottom area are arranged substantially parallel to the direction of inclination of the funnel-shaped side walls.

18. (previously presented) The steam generator as claimed in claim 17, wherein the steam generator is a continuous steam generator.

19. (currently amended) A combustion chamber that combusts a fossil fuel for the generation of steam, comprising:

a top area and a bottom area where the bottom area is sized and configured for removal of accumulated ash;

a lower portion having funnel shaped side walls arranged between the top and bottom areas;

a plurality of steam generator pipes, connected together by fins, at least one of the pipes having a diameter at the bottom area that is different than a diameter at the top area;

an encircling wall arranged between the bottom and top areas and above the funnel shaped side walls formed from the plurality of steam generator pipes; and

a flow medium that flows through the steam generator pipes that is heated; and

a center axis A, positioned at the center of the encircling wall and extending parallel to the direction of flow of the flow medium,

wherein the outermost steam generator pipes which are the greatest distance from the center axis A are arranged over the entire height of the funnel shaped side walls both with non-reduced pipe diameter and a non-reduced fin width,

wherein inner most steam generator pipes with the smallest distance from the center axis A have a reduced pipe diameter and reduced fin width, and

steam generator pipes arranged between the outermost and the innermost steam generator pipes form a transition having a first section with reduced pipe diameter and reduced fin width and a second section with non-reduced pipe diameter and non-reduced fin width.

~~diameter and width of the steam generator pipes is determined with respect to the steam generator pipe distance from the center axis A and with respect to the height of the funnel-shaped side walls.~~

20. (previously presented) The steam generator as claimed in claim 9, wherein the combustion chamber side walls and the encircling wall form a gas tight boundary for the ducting of a hot combustion gas.

21. (previously presented) The steam generator as claimed in claim 9, wherein at least one of the outermost steam generator pipes arranged at the greatest distance from the center axis A is arranged over the entire height of the funnel-shaped side walls both with non-reduced pipe diameter and non-reduced width.

22. (previously presented) The steam generator as claimed in claim 21, wherein the innermost steam generator pipes with the smallest distance from the center axis A are embodied over their entire length with a reduced pipe diameter and reduced width and arranged in parallel to the center axis A.

23. (previously presented) The steam generator as claimed in claim 22, wherein the steam generator pipes arranged between the outermost and the innermost steam generator pipes have a first section with reduced pipe diameter, and a second section with non-reduced pipe diameter.